

RT-1847 TRSS Radio Repeater



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VENDOR DESCRIPTION

Nova Engineering's Radio Repeater (RR) is a VHF/UHF communications device capable of recovering data from remote unattended sensors as commanded by a Monitor/Display unit. Sensor messages can be repeated in near-real time, or stored for later transmission. The RR is interoperable with TRSS, REMBASS, TASS, IUMSS, and other sensor systems.

The RR conforms to the governing standard for virtually all current UGS Systems, while also providing spectrally-efficient waveforms for multiple higher rates. Therefore, the Repeater Relay provides an immediate growth path for all current low data rate systems.



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UGS

Power Source		Environmental	
Repeater	BA-5390/U BA-5590/U Lithium	High Temp	+52°C
Battery	30-45 days @ 1620 activations/day @ -30°C	Low Temp	-30°C
		Rain	Blowing rain of 4" per hr at 65 knots
		Humidity	95% relative humidity, complies with MIL-STD-810
		Immersion	Withstands 24 hrs in 1m of H ₂ O, complies with MIL-STD-810
		Shock	Drop test 1 meter onto concrete, complies with MIL-STD-810
		EMI/EMC	6 volts per meter from 14 kHz-40 GHz, complies with MIL-STD-461E

Device	Description	Size/Weight	Features
Repeater	Utilized to overcome line-of-sight obstructions or extend communications range by 5-20km (antenna dependent)	180 cu in 8.2 lbs w/ battery	<ul style="list-style-type: none">■ Dual-band/multi-rate■ Interoperable with TRSS, REMBASS, etc.■ Low-power sleep modes■ Retransmits messages■ Remotely commandable■ Laptop programmable■ VHF 138-153 MHz■ 1,198 channels■ UHF 311.5-313.5 MHz■ 41 channels■ 2-watt transmitter - VHF■ 5-watt transmitter - UHF